

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-137807

(43)Date of publication of application : 14.05.2003

(51)Int.Cl.

A61K 38/00
A23L 1/305
A61K 31/375
A61K 31/59
A61K 31/704
A61K 31/728
A61K 33/06
A61P 17/00
A61P 17/02
A61P 17/04
A61P 17/16
A61P 19/02
A61P 19/08
A61P 19/10
A61P 37/08
A61P 43/00
// A61K 7/00
A61K 7/48
C07K 5/083

(21)Application number : 2001-337062

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KK

(22)Date of filing :

01.11.2001

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(54) COLLAGEN-PRODUCING PROMOTER, COSMETIC, FOOD AND PHARMACEUTICAL CONTAINING THE SAME AND EXTERNAL PREPARATION FOR PREVENTING OR IMPROVING DERMATOSIS

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a collagen-producing promoter, a functional food, a medicinal agent, a growth promoting agent for osteoblast or fibroblast, a bone enhancer or bone density improver, a metabolism promoter of in vivo tissues, a skin activator, a preventive agent or improver for functional reduction of skin or bone by aging, a preventive agent or improver for osteoporosis, an improver for chronic rheumatoid arthritis or osteoarthritis, a promoter for healing bone fracture or wound, an external preparation for preventing or improving dermatosis, an external preparation for improving itchy feeling of the skin caused by

(A)



<図1は、皮膚組織の顕微鏡写真（倍率：100倍）>

(B)



<図2は、皮膚組織の顕微鏡写真（倍率：100倍）>

(C)



<図3は、皮膚組織の顕微鏡写真（倍率：100倍）>

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dialysis, an external preparation for improving itchy feeling of the skin caused by atopic dermatitis, an external preparation for preventing or improving a rash by tape on the skin, an external preparation for improving cracks on the skin caused by diabetes and a modifier for generating cultured skin or artificial skin, efficiently and rapidly digested and absorbed even when ingested in a little amount.

SOLUTION: This collagen-producing promoter comprises a mixture of tripeptides having amino acid sequences expressed by general formulae: (Gly-Ala-Arg), (Gly-Ala-Hyp), (Gly-Ala-Lys), (Gly-Pro-Ala), (Gly-Pro-Arg), (Gly-Pro-Hyp) and (Gly-Pro-Ser) as effective agents.

(11)特許出願公開番号
特開2003-137807
(P2003-137807A)



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]



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This image shows a full page of dot grid paper. The background is white, and it is covered with a regular pattern of small, black dots arranged in horizontal rows and vertical columns. The dots are spaced evenly apart both horizontally and vertically, creating a guide for writing or drawing without the prominence of solid lines. There are no margins, text, or other markings on the page.

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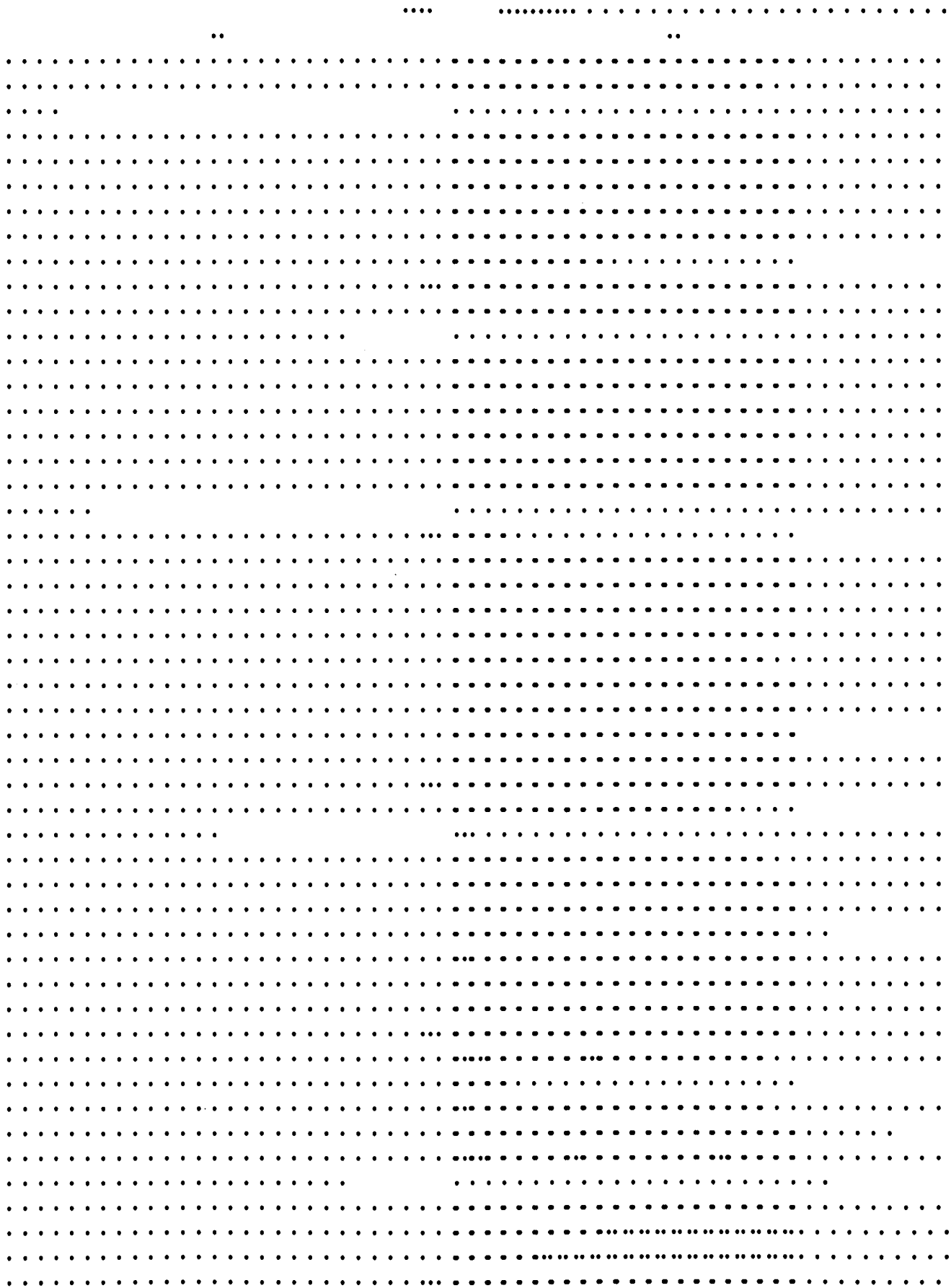
• •

A 20x20 grid of dots. In the center, there is a large, faint, light-gray watermark that reads "www.dreamtore.com". The watermark is oriented horizontally and spans across the middle of the grid.

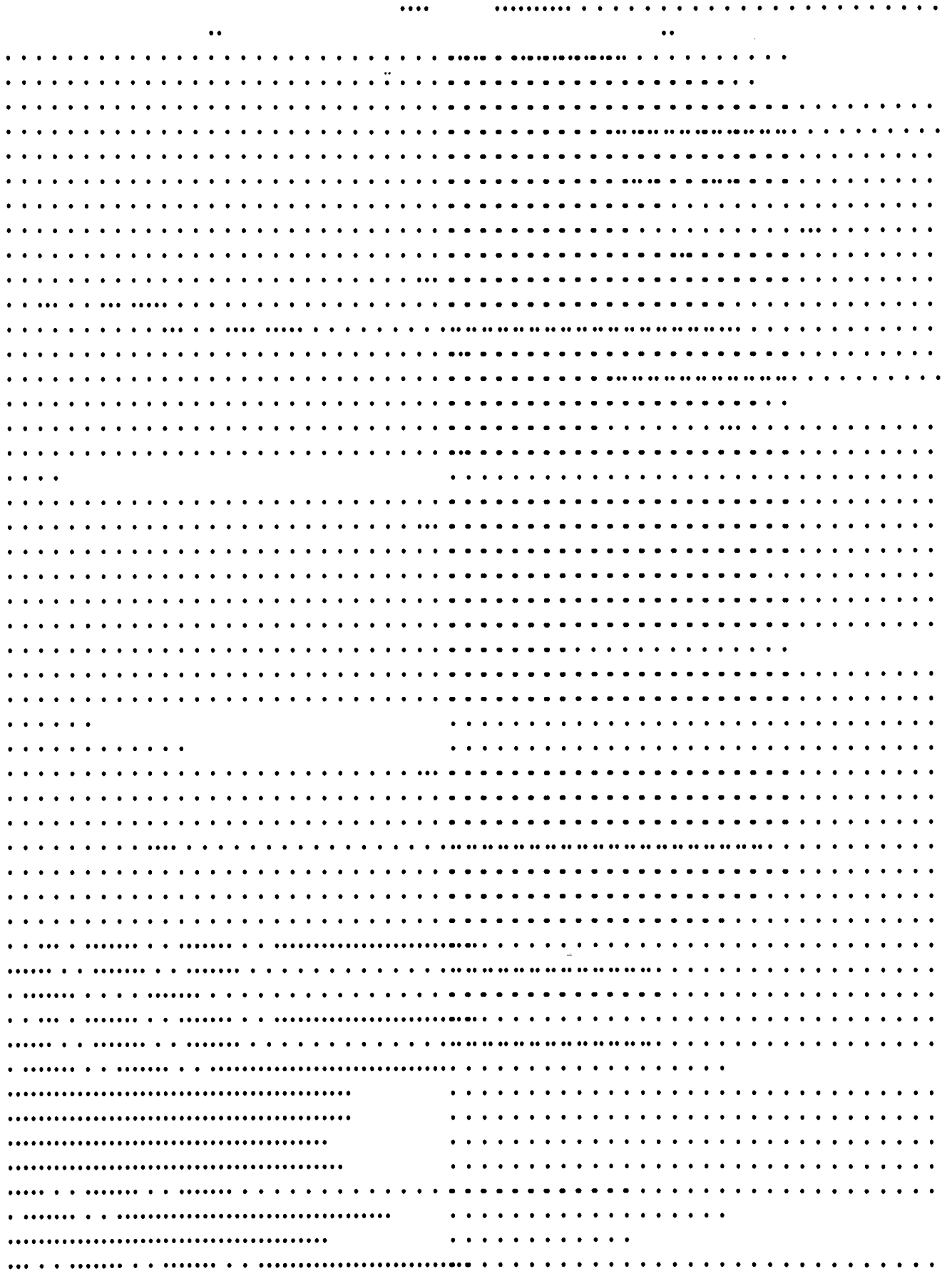
[illegible]

• •

This image shows a full page of dot grid paper. The dots are arranged in a precise, repeating grid pattern across the entire surface. There are no margins, text, or other markings present. The dots are small, dark gray, and evenly spaced both horizontally and vertically.



[illegible]



The image displays a complex dot pattern on a white background. The pattern consists of numerous small black dots arranged in a grid-like structure. The dots are organized into several horizontal rows, with varying lengths and spacing. The overall shape is roughly rectangular, with a central vertical column of dots that appears to be the most prominent feature. The dots are arranged in a way that suggests a stylized letter 'E' or a comb-like structure. The pattern is dense in the center and becomes sparser towards the edges. The dots are small and black, and the background is white.

..

(g/100g)

	a 群	b 群	c 群	d 群	e 群
精製大豆蛋白	19.0	19.0	19.0	19.0	19.0
L-システイン	0.3	0.3	0.3	0.3	0.3
コーンスターチ	39.7	39.7	39.7	39.7	39.7
α化コーンスターチ	13.3	13.3	13.3	13.3	13.3
シュクロース	10.0	10.0	10.0	10.0	10.0
大豆油	7.0	7.0	7.0	7.0	7.0
セルロースパウダー	5.0	5.0	5.0	5.0	5.0
重塩化コリン	0.2	0.2	0.2	0.2	0.2
ビタミン・ミネラル混合 A	4.5	4.5	4.5	4.5	—
カルシウム・ビタミン強化 B	—	—	—	—	4.5
コラーゲントリペプチド 試料(A)	—	1.0	—	—	—
コラーゲントリペプチド 試料(B)	—	—	1.0	—	1.0
コラーゲントリペプチド (従来品)	—	—	—	1.0	—

配合成分

コラーゲントリペプチド
グリチルリチン酸ジカリウム
グリセリン
ヒアルロン酸
1,3-ブチレングリコール
防腐剤
純水

配合量 (重量%)

0.5
0.1
5.0
0.01
5.0
適量
残余

配合成分

コラーゲントリペプチド
グリセリン
ヒアルロン酸
1,3-ブチレングリコール
防腐剤
純水

配合量 (重量%)

0.5
5.0
0.01
5.0
適量
残余

テープかぶれに対する改善効果 (人)

	A	B	C	D	E
CTP ローション処方(b)	9	2	1	0	0
コントロール処方	0	2	3	6	1

配合成分

コラーゲントリペプチド

純水

親水軟膏

配合量 (重量%)

2.0

5.0

残余

飲 料	皮膚の角層水分含量 (μS)			TEWL 抑制効果 (有意差)
	試験開始前	試験終了後	上昇効果(有意差)	
①	52.4±6.8	59.5±5.9	有 : Δ7.1*	有 : 13.2% 抑制**
②	53.1±5.6	54.4±7.1	無	無
③	53.4±5.6	54.1±6.2	無	無
④	52.8±8.5	53.0±7.3	無	無

*p<0.10

**p<0.01

【評価基準】

- A. 改善された
- B. やや改善された
- C. 変化なし (改善効果が認められない)
- D. やや悪化した
- E. 悪化した

飲 料	肌のハリ					しわ				
	A	B	C	D	E	A	B	C	D	E
①	5	5	7	0	0	3	7	7	0	0
②	1	1	10	3	0	0	3	11	1	0
③	0	2	12	2	0	1	2	13	0	0
④	0	1	13	2	0	0	2	12	2	0

(A)



<投与24時間後(投与回数:1回)>

(B)



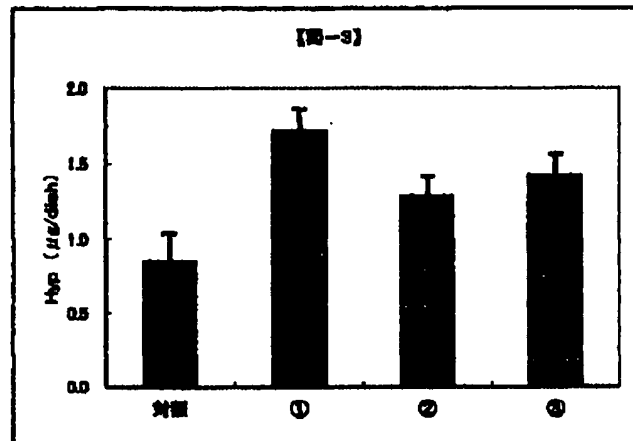
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(C)

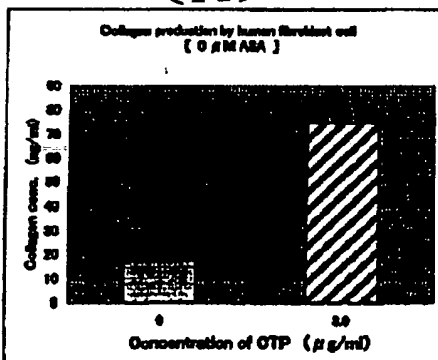


<投与24時間後(投与回数:12回)>

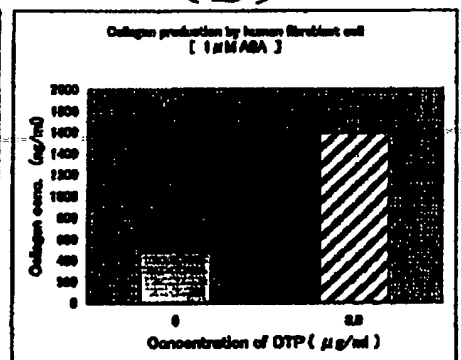
【図-3】

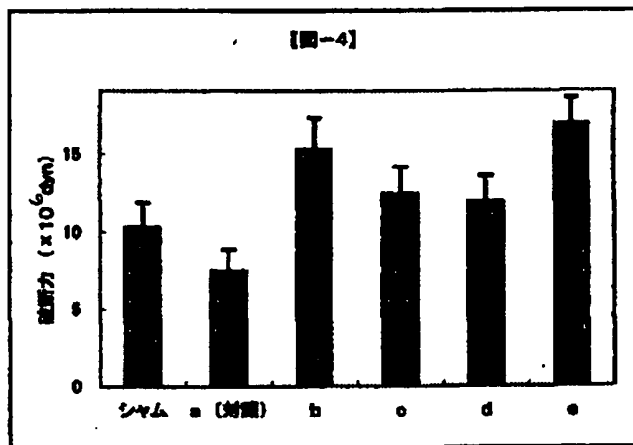


(A)

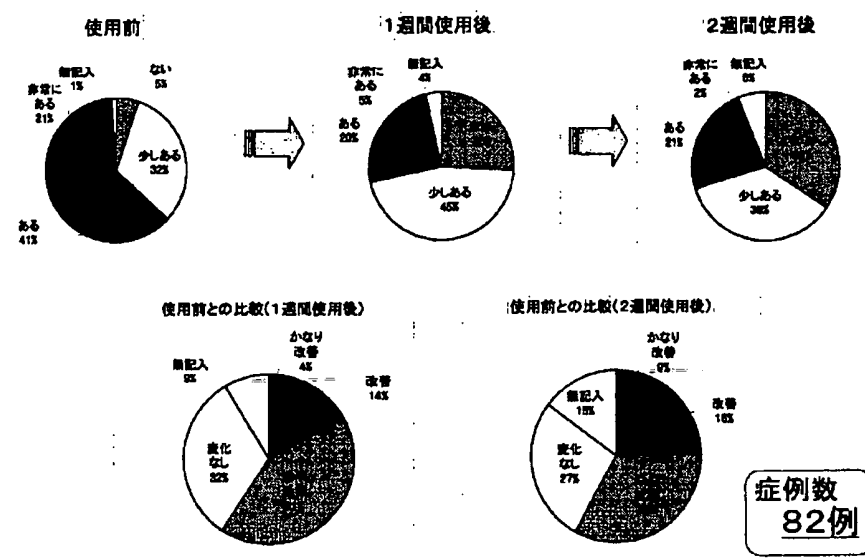


(B)

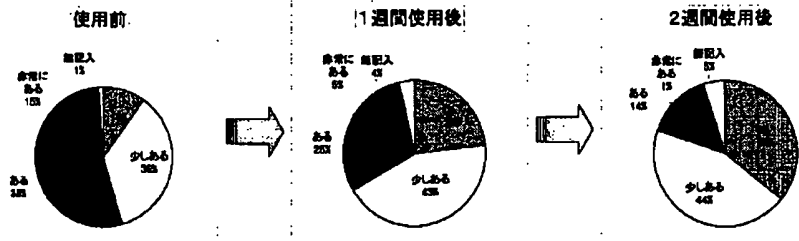




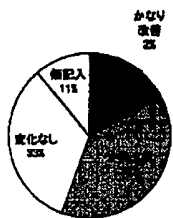
かゆみ



ひび割れ改善効



使用前との比較(1週間使用後)



使用前との比較(2週間使用後)

